TEJUS

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Sri.E Ramesh Anand

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	06-06-2020		
Layer no. or level	GSB layer		
Depth of hole	200mm		
Field density:			
Chainage	1	2	2
Wt. of wet material from hole (Ww) gms.	5988	5974	5980
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10576	10582	10562
Wt. of sand in hole+ cone (w3) gms.	4424	4418	4438
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3344	3338	3358
Bulk density of sand (γs)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.36	2.36	2.35
Moisture meter reading(moisture content)	6.50	6.40	6.40
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.22	2.22	2.21
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.64	98.68	98.19
% compaction required	98%	98%	98%

Note:

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Authorised Signatory

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	18-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}, 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.456	2580.43	1.80	0.960	38.30	19.51	21.07	20.22	25.28
2	50.00	90.00	0.456	2580.43	1.80	0.960	38.46	19.59	21.15	20.31	25.39
3	50.00	90.00	0.442	2501.21	1.80	0.960	38.28	19.42	20.97	20.13	25.17

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PRECAST SLAB (CORE) TEST REPORT

TEJUS CONSULTANTS

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	18-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.456	2580.43	1.80	0.960	38.30	19.51	21.07	20.22	25.28
2	50.00	90.00	0.456	2580.43	1.80	0.960	38.46	19.59	21.15	20.31	25.39
3	50.00	90.00	0.442	2501.21	1.80	0.960	38.28	19.42	20.97	20.13	25.17

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s Sri.E.Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosahalli Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	18-06-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24-1983
Grade of Concrete	:	M_{30}, 100mm thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50.00	90.00	0.456	2580.43	1.80	0.960	38.30	19.51	21.07	20.22	25.28
2	50.00	90.00	0.456	2580.43	1.80	0.960	38.46	19.59	21.15	20.31	25.39
3	50.00	90.00	0.442	2501.21	1.80	0.960	38.28	19.42	20.97	20.13	25.17

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	18-06-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.456	2580.43	1.80	0.960	38.30	19.51	21.07	20.22	25.28
2	50.00	90.00	0.456	2580.43	1.80	0.960	38.46	19.59	21.15	20.31	25.39
3	50.00	90.00	0.442	2501.21	1.80	0.960	38.28	19.42	20.97	20.13	25.17

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Brihat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	20-06-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}, 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.466	2637.02	1.80	0.960	38.44	19.58	21.14	20.30	25.37
2	50.00	90.00	0.462	2614.39	1.80	0.960	38.56	19.64	21.21	20.36	25.45
3	50.00	90.00	0.458	2591.75	1.80	0.960	38.22	19.47	21.02	20.18	25.23

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosahalli Nagara, MS Palya Vinayaka Nagara and Raghavaram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	20-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}, 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
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3	50.00	90.00	0.458	2591.75	1.80	0.960	38.22	19.47	21.02	20.18	25.23

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	22-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.460	2603.07	1.80	0.960	38.36	19.54	21.10	20.26	25.32
2	50.00	90.00	0.456	2580.43	1.80	0.960	38.60	19.66	21.23	20.38	25.48
3	50.00	90.00	0.464	2625.70	1.80	0.960	38.54	19.63	21.20	20.35	25.44

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PRECAST SLAB (CORE) TEST REPORT

TEJUS CONSULTANTS

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s Sri.E Ramesh Anand
Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
No.of Sample Tested	:	3
Date of Testing	:	22-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999),'SP-24:1983.
Grade of Concrete	:	M_{20} . 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
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2	50.00	90.00	0.456	2580.43	1.80	0.960	38.60	19.66	21.23	20.38	25.48
3	50.00	90.00	0.464	2625.70	1.80	0.960	38.54	19.63	21.20	20.35	25.44

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Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Sri.E Ramesh Anand

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	**12-11-2020**		
Layer no. or level	GSB layer		
Depth of hole	200mm		
Field density:			
Chainage	**1**	**2**	**2**
Wt. of wet material from hole (Ww) gms.	5985	5972	5992
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10586	10576	10572
Wt. of sand in hole+ cone (w3) gms.	4414	4424	4428
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3334	3344	3348
Bulk density of sand (γs)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.36	2.36
Moisture meter reading(moisture content)	6.40	6.50	6.40
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.21	2.22
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.98	98.38	98.68
% compaction required	98%	98%	98%

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GRADATION FOR GSB
(As per MORT&H 400-1,Grading-II)

Name of Work	:	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Sri.E Ramesh Anand
Date of Testing	:	
Type of Mix	:	GSB
Sample I/D	:	GSB1

Sample Location:	At plant	**Date of Sampling:**	12-11-2020	
		Date of testing:	13-11-2020	
Type of material & Purpose:	GSB	**Oven Dry Wt.(gms):**	10000.0	

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	-
53	0	0	0.00	100.00	100.00
26.5	2264	2264	22.64	77.36	70-100
9.5	2422	4686	46.86	53.14	50-80
4.75	908	5594	55.94	44.06	40-65
2.36	1206	6800	68.00	32.00	30-50
0.425	1972	8772	87.72	12.28	10-15
0.075	836	9608	96.08	3.92	<5
Pan	392.0				
Total	10000.0				

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Test Report on Cement

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri.E Ramesh Anand
Sample ID	Cement
Date of Sample Tested	17-11-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	107 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	453	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	

Remarks : Satisfactory / Not Satisfactory

TEJUS CONSULTANTS

Consultant's Representative

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TEJUS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri.E Ramesh Anand
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-11-2020	29-11-2020	7 days	8.850	22500	445	19.78	19.45
2	22-11-2020	29-11-2020	7 days	8.790	22500	430	19.11	
3	22-11-2020	29-11-2020	7 days	8.810	22500	438	19.47	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s Sri. E Ramesh Anand				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	22-11-2020	
			Date of Testing	22-11-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	268	268	2.68	97.32	95 - 100
10.00 mm	4994	5262	52.62	47.38	25 - 55
4.75 mm	4356	9618	96.18	3.82	0 - 10
Pan	382	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri. E Ramesh Anand
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	Plant	**Date of Sampling**	22-11-2020
		Date of Testing	22-11-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	579	579	5.79	94.21	90-100
10.0	3346	3925	39.25	60.75	40-85
4.75	5428	9353	93.53	6.47	0-10
Pan	647	10000			

Remarks : Satisfactory / Not Satisfactory

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri. E Ramesh Anand

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant**	**Date of Sampling**	22-11-2020
Period of Soaking	**24 hours**	**Date of Testing**	22-11-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	659	652	672	
B	Weight of oven - dry sample gm.	650	645	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1688	1684	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.642	2.654	2.675	**2.657**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.385	1.085	0.901	**1.124**

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

TEJUS

Clients	*Bruhat Bangalore Mahanagara Palike*
Project	*Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Houdala Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11*
Consultants	*TEJUS CONSULTANTS Basaveshwar Nagar Bangalore*
Contractor	*M/s Sri. E Ramesh Anand*

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Materia	**Fine aggregate (M sand)**		**Proposed Use**	Concrete	
Sample Location	**At Plant**		**Date of Sampling**	22-11-2020	
			Date of Testing	22-11-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	276	484	16.13	83.87	75 - 100
1.18 mm	552	1036	34.53	65.47	55 - 90
0.600 mm	542	1578	52.60	47.40	35 -59
0.300 mm	662	2240	74.67	25.33	8-30
0.150 mm	528	2768	92.27	7.73	0 - 10
Pan	232	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Sri. E Ramesh Anand
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	22-11-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	106 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	412 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Drains at Lakkappa Layout, Singapura Paradise, Hosabalu Nagara, MS Palya Vinayaka Nagara and Raghuram Layout in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri.E Ramesh Anand

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	P.C.C
Location/Source	At Laboratory	Date of Sampling	17-12-2020
Period of Soaking	24 hours	Date of Testing	18-12-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		671	674	650	
B	Weight of oven - dry sample gm.		662	664	641	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1696	1698	1684	
E	Bulk specific gravity	B / (C+A-D)	2.648	2.645	2.660	2.651
G	Absorption (%)	(A-B)*100 / B	1.360	1.506	1.404	1.423

Remarks : Satisfactory / Not Satisfactory

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